

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: SHAO et al

Serial No. To Be Assigned

Filed: March 13, 2001

For: ISOLATED HUMAN TRANSPORTER PROTEINS,
NUCLEIC ACID MOLECULES ENCODING HUMAN
TRANSPORTER PROTEINS, AND USES THEREOF

Art Unit:

Examiner:

Atty. Docket: CL001163

**SUBMISSION OF SEQUENCE LISTING
UNDER 37 C.F.R. § 1.821(a)**

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sir:

In compliance with 37 C.F.R. § 1.821(a), applicants submit the Sequence Listing, including the paper copy of the Sequence Listing and the computer readable copy of the Sequence Listing.

In the Specification:

The Sequence Listing is provided on pages 59-85 of the specification in the above-identified application.

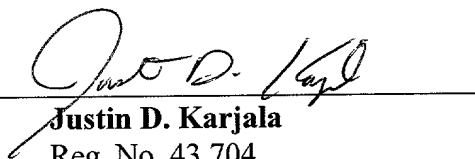
REMARKS

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the Sequence Listing and the computer readable copy of the Sequence Listing submitted herewith in the above application are the same.

It is respectfully believed that this application complies with the Sequence Listing requirements and is now in condition for processing.

Respectfully submitted,

CELERA GENOMICS

By: 
Justin D. Karjala
Reg. No. 43,704

Date: March 13, 2001

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Rockville, MD 20850
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Fax: 240-453-3084

SEQUENCE LISTING

<110> SHAO, Wei et al.

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NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
AND USES THEREOF

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<211> 765

<212> PRT

<213> Human

<400> 4

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Asp Asp Phe His Thr Ile Asp Trp Val Arg Glu Lys Cys Lys Asp Arg
 35           40           45
Glu Arg His Arg Arg Ile Asn Ser Lys Lys Lys Glu Ser Ala Trp Glu
 50           55           60
Met Thr Lys Ser Leu Tyr Asp Ala Trp Ser Gly Trp Leu Val Val Thr
 65           70           75           80
Leu Thr Gly Leu Ala Ser Gly Ala Leu Ala Gly Leu Ile Asp Ile Ala

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[illegible]

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 580 585 590
 Glu Glu Phe Thr His Thr Thr Leu Ala Ala Asp Val Met Arg Pro Arg
 595 600 605
 Arg Asn Asp Pro Pro Leu Ala Val Leu Thr Gln Asp Asn Met Thr Val
 610 615 620
 Asp Asp Ile Glu Asn Met Ile Asn Glu Thr Ser Tyr Asn Gly Phe Pro
 625 630 635 640
 Val Ile Met Ser Lys Glu Ser Gln Arg Leu Val Gly Phe Ala Leu Arg
 645 650 655
 Arg Asp Leu Thr Ile Ala Ile Glu Ser Ala Arg Lys Lys Gln Glu Gly
 660 665 670
 Ile Val Gly Ser Ser Arg Val Cys Phe Ala Gln His Thr Pro Ser Leu
 675 680 685
 Pro Ala Glu Ser Pro Arg Pro Leu Lys Leu Arg Ser Ile Leu Asp Met
 690 695 700
 Ser Pro Phe Thr Val Thr Asp His Thr Pro Met Glu Ile Val Val Asp
 705 710 715 720
 Ile Phe Arg Lys Leu Gly Leu Arg Gln Cys Leu Val Thr His Asn Gly
 725 730 735
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 Glu Arg His Arg Arg Ile Asn Ser Lys Lys Lys Glu Ser Ala Trp Glu
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 Met Thr Lys Ser Leu Tyr Asp Ala Trp Ser Gly Trp Leu Val Val Thr
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 Leu Thr Gly Leu Ala Ser Gly Ala Leu Ala Gly Leu Ile Asp Ile Ala
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 Ala Asp Trp Met Thr Asp Leu Lys Glu Gly Ile Cys Leu Ser Ala Leu
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 Trp Tyr Asn His Glu Gln Cys Cys Trp Gly Ser Asn Glu Thr Thr Phe
 115 120 125
 Glu Glu Arg Asp Lys Cys Pro Gln Trp Lys Thr Trp Ala Glu Leu Ile
 130 135 140
 Ile Gly Gln Ala Glu Gly Pro Gly Ser Tyr Ile Met Asn Tyr Ile Met
 145 150 155 160
 Tyr Ile Phe Trp Ala Leu Ser Phe Ala Phe Leu Ala Val Ser Leu Val

165 170 175
 Lys Val Phe Ala Pro Tyr Ala Cys Gly Ser Gly Ile Pro Glu Ile Lys
 180 185 190
 Thr Ile Leu Ser Gly Phe Ile Ile Arg Gly Tyr Leu Gly Lys Trp Thr
 195 200 205
 Leu Met Ile Lys Thr Ile Thr Leu Val Leu Ala Val Ala Ser Gly Leu
 210 215 220
 Ser Leu Gly Lys Glu Gly Pro Leu Val His Val Ala Cys Cys Cys Gly
 225 230 235 240
 Asn Ile Phe Ser Tyr Leu Phe Pro Lys Tyr Ser Thr Asn Glu Ala Lys
 245 250 255
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 Phe Gly Ala Pro Ile Gly Gly Val Leu Phe Ser Leu Glu Glu Val Ser
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 Asp Ile Pro Asp Arg Pro Ala Gly Ile Gly Val Tyr Ser Ala Ile Trp
 435 440 445
 Gln Leu Cys Leu Ala Leu Ile Phe Lys Ile Ile Met Thr Val Phe Thr
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 Phe Gly Ile Lys Val Pro Ser Gly Leu Phe Ile Pro Ser Met Ala Ile
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 Val Met Thr Ser Lys Trp Val Gly Asp Ala Phe Gly Arg Glu Gly Ile
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 Tyr Glu Ala His Ile Arg Leu Asn Gly Tyr Pro Phe Leu Asp Ala Lys
 580 585 590
 Glu Glu Phe Glu Phe Thr His Thr Thr Leu Ala Ala Asp Val Met Arg
 595 600 605
 Pro Arg Arg Asn Asp Pro Pro Leu Ala Val Leu Thr Gln Asp Asn Met
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          645          650          655
Leu Arg Arg Asp Leu Thr Ile Ala Ile Glu Ser Ala Arg Lys Lys Gln
          660          665          670
Glu Gly Ile Val Gly Ser Ser Arg Val Cys Phe Ala Gln His Thr Pro
          675          680          685
Ser Leu Pro Ala Glu Ser Pro Arg Pro Leu Lys Leu Arg Ser Ile Leu
          690          695          700
Asp Met Ser Pro Phe Thr Val Thr Asp His Thr Pro Met Glu Ile Val
705          710          715          720
Val Asp Ile Phe Arg Lys Leu Gly Leu Arg Gln Cys Leu Val Thr His
          725          730          735
Asn Gly Arg Leu Leu Gly Ile Ile Thr Lys Lys Asp Ile Leu Arg His
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<210> 6

<211> 60

<212> PRT

<213> *Xenopus laevis*

<400> 6

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Met Asp Ile Ser Ser Asp Pro Tyr Leu Pro Tyr Asp Gly Gly Gly Asp
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Asn Ile Pro Leu Arg Asp Leu His Lys Arg Gly Thr His Tyr Thr Val
          20          25          30
Thr Asn Gly Gly Ala Ile Asn Ser Thr Thr His Leu Leu Asp Leu Leu
          35          40          45
Asp Glu Pro Ile Pro Gly Val Gly Thr Tyr Asp Asp
50          55          60

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